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6
REPORT

—OF—

JOHN H. WADE,
OF WASHINGTON COUNTY,

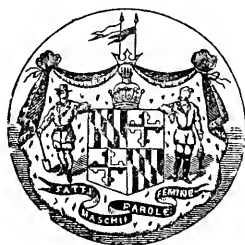
—AND—

SAMUEL J. TWILLEY,
OF WORCESTER COUNTY.

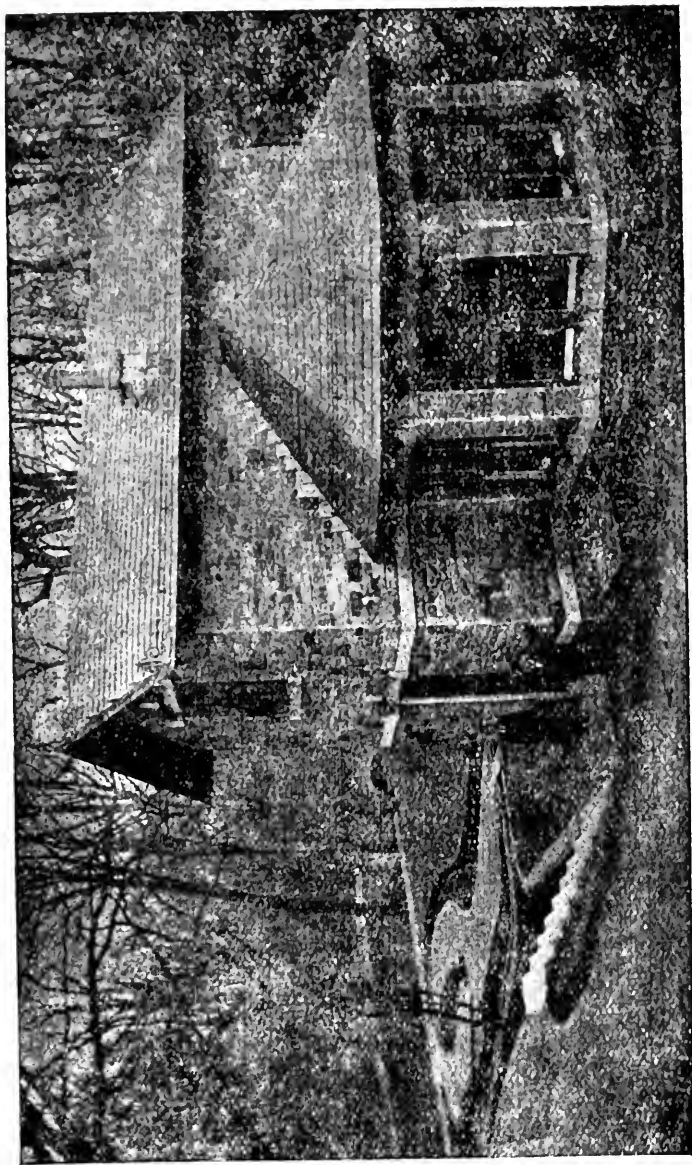
THE
Commissioners of Fisheries
OF MARYLAND

—FOR—

1910-1911.



BALTIMORE:
KING BROS.
STATE PRINTERS,
E. LEXINGTON STREET,
1911.



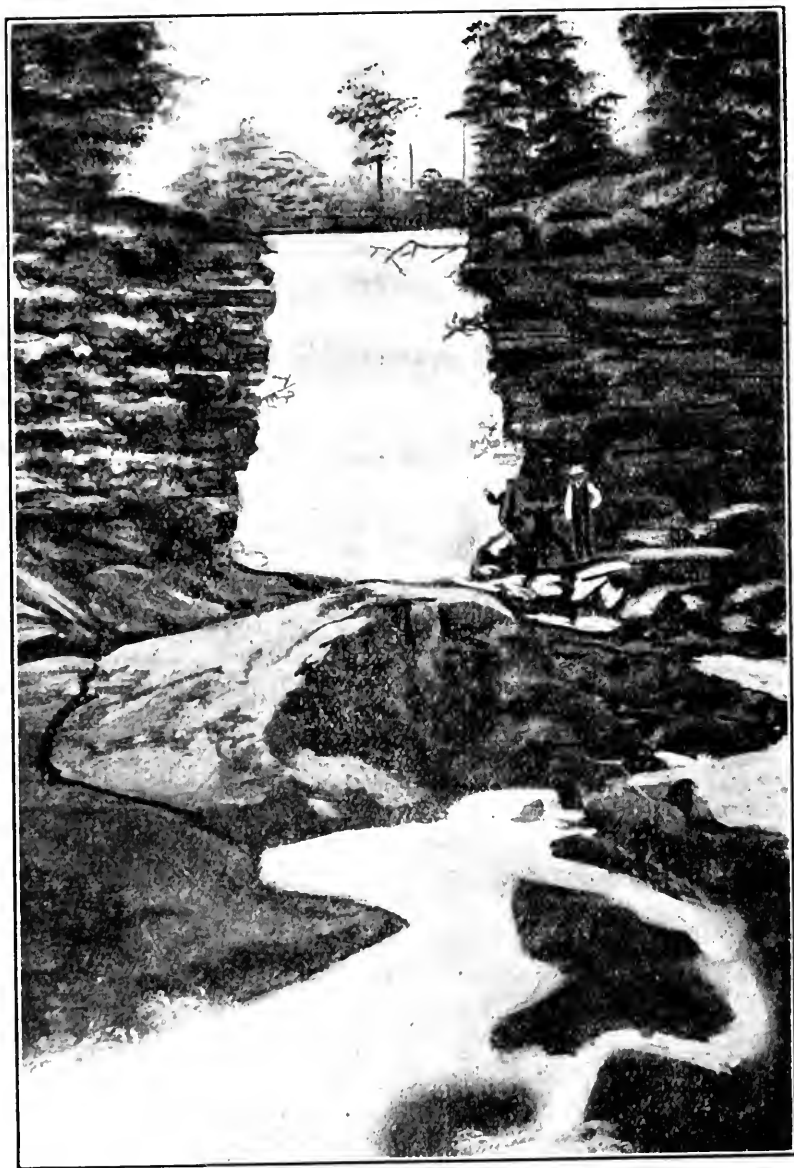
STATE FISH HATCHERY, DRUID HILL PARK.

LIST OF FISH COMMISSIONERS OF MARYLAND

Western Shore.

Eastern Shore.

| | | |
|--------------------------|-----------------|----------------------|
| T. B. FERGUSON..... | 1874-1875..... | PHILIP W. DOWNES. |
| T. B. FERGUSON..... | 1876-1877..... | PHILIP W. DOWNES. |
| T. B. FERGUSON..... | 1878-1879..... | THOMAS HUGHLETT, SR. |
| T. B. FERGUSON..... | 1880-1881..... | THOMAS HUGHLETT, SR. |
| T. B. FERGUSON | 1882-1883..... | THOMAS HUGHLETT, SR. |
| G. W. DELAWDER..... | 1884-1885..... | DR. E. W. HUMPHREYS. |
| G. W. DELAWDER..... | 1886-1887..... | DR. E. W. HUMPHREYS. |
| G. W. DELAWDER..... | 1888-1889..... | STEPHEN P. TOADVINE. |
| G. W. DELAWDER..... | 1890-1891..... | GRANVILLE R. RIDER. |
| RICHARD T. BROWNING..... | 1892-1893 | JOHN S. SUDLER. |
| RICHARD T. BROWNING..... | 1894-1895..... | JOHN S. SUDLER. |
| JOHN E. GNAGEY..... | 1896-1897..... | JAMES C. TAWES. |
| A. F. GEORGE..... | 1898-1899..... | JOHN E. STERLING. |
| JESSE W. DOWNEY..... | 1900-1901..... | CLARENCE L. VINCENT. |
| JESSE W. DOWNEY..... | 1902-1903..... | CLARENCE L. VINCENT. |
| CHARLES F. BROOKE..... | 1904-1905..... | JAMES D. ANDERSON. |
| CHARLES F. BROOKE..... | 1906-1907..... | JAMES D. ANDERSON. |
| JOHN H. WADE..... | 1908-1909..... | SAMUEL J. TWILLEY. |
| JOHN H. WADE..... | 1910-1911..... | SAMUEL J. TWILLEY. |



FALLS OF MUDDY CREEK—GARRETT COUNTY.

REPORT.

TO HIS EXCELLENCY,

AUSTIN L. CROTHERS,

GOVERNOR OF MARYLAND :

Sir : We have the honor to present herewith the biennial report of the Fish Commissioners of Maryland for the years 1910 and 1911, as required by the laws of the State.

Your Commissioner for the Eastern Shore shows by statistics embodied in this report that a great work has been accomplished in the artificial propagation of shad and perch during these two years, and especially the year 1911, as conditions were not as favorable in 1910 as they have been this year, but taken together the work has far exceeded our expectations.

Shad and perch have been planted in all the rivers of the Eastern Shore in a systematic and thorough manner for which we commend our deputies and their assistants. That our work is appreciated by the people of the State is evidenced by the great number of letters we have received from every section asking for young fish and commending the work already done.

During the season of 1908-9 shad were hatched out in large numbers and placed in the waters of the State. Good results were evidenced by the public this year in the great numbers caught and the comparatively low price of this great food fish. Shad were sold in the Baltimore markets as low as 30 cents per pair. Many of these shad were caught in the sound and bay before they had reached the natural spawning ground. While we are pleased that the catch of shad was large and profitable we regret that a law is not on the statute-books of the State requiring all seines and pounds to be so raised from Saturday at sundown to one o'clock Monday morning during the fishing season, that more shad may

be able to reach the spawning grounds at the heads of the rivers, and by this means increase the number of young fry in the way nature intended. At the same time it would enable the Fish Commission to secure more eggs for hatching purposes.

We desire to call your attention to the millions of young yellow perch that have been planted in the rivers of the Eastern Shore during the past two years. We have been encouraged to continue this work by the splendid results obtained. Yellow perch are not prized by Marylanders as highly as the white perch, which has no superior as a pan fish, but commercially the yellow perch is outstripping all others. During the winter months they are shipped in large quantities to New York and other northern cities and bring from 15 cents to 20 cents per pound, and as they are more productive than any other kind of fish, are hardy and will live and thrive in all the flowing streams, they are naturally of great commercial value to the State.

We desire to extend our thanks to you for the encouragement you have given us in the work to which we were assigned, and assure you of our high appreciation of the same.

Your Commissioner for the Western Shore desires to report that in the winter of 1910, we placed on the screens at Druid Hill Park Hatchery one million (1,000,000) brook trout eggs, which were hatched and cared for until of a size to ship to the various people who had applied for them. The output was large, and a fair estimate of loss by death would not exceed fifty thousand (50,000).

The later part of April, we placed in the State Nursery at Lake Brown, Garrett County, Md., under the supervision of R. T. Browning, Assistant Fish Commissioner, one hundred thousand (100,000) of these fry, four months old. These fry were cared for by Mr. Browning until August, when a

heavy rain overflowed the troughs at the Nursery, necessitating our distributing the fry earlier than expected. We also received at the Nursery about this time, thirty thousand (30,000) brook trout fry from the U. S. Fish Commissioner which were used in stocking the spring streams of Garrett, Alleghaney and Washington Counties. In April, we received at Druid Hill Park Hatchery, sixteen and one half million (16,500,000) white and yellow perch eggs, which were hatched and distributed.

Owing to the run of shad being small in the spring of 1910, we were only able to secure about six hundred thousand eggs (600,000) for the Park Hatchery which we hatched and distributed. We would like to call your attention to the fact of the very large number of eggs handled, and to state that the facilities for hatching these kinds of fish at the Park are very poor.

The people seem to have found the worth of the yellow perch, and are continually urging that the output of this fish be increased.

In the winter of 1911, we placed on the screens one and one half million (1,500,000) brook trout eggs which we hatched and cared for at the Park Hatchery until a suitable size to distribute. Our estimate of the loss being about two hundred and fifty thousand (250,000). A very good proportion, owing to the very cramped condition of the hatchery.

During this season we stocked streams in every County on the Western Shore and a great many in Southern Maryland. In the spring we received fifty million (50,000,000) white and yellow perch eggs which were hatched and distributed to parties who had applied for them.

Later we received five million (5,000,000) shad eggs which were cared for and distributed as in former years. We stocked the Nursery with one hundred thousand (100,000) brook trout fry which were cared for by the Assistant Fish Commissioner and distributed by him as heretofore. The

reports from all sources have been very gratifying and we feel very much encouraged.

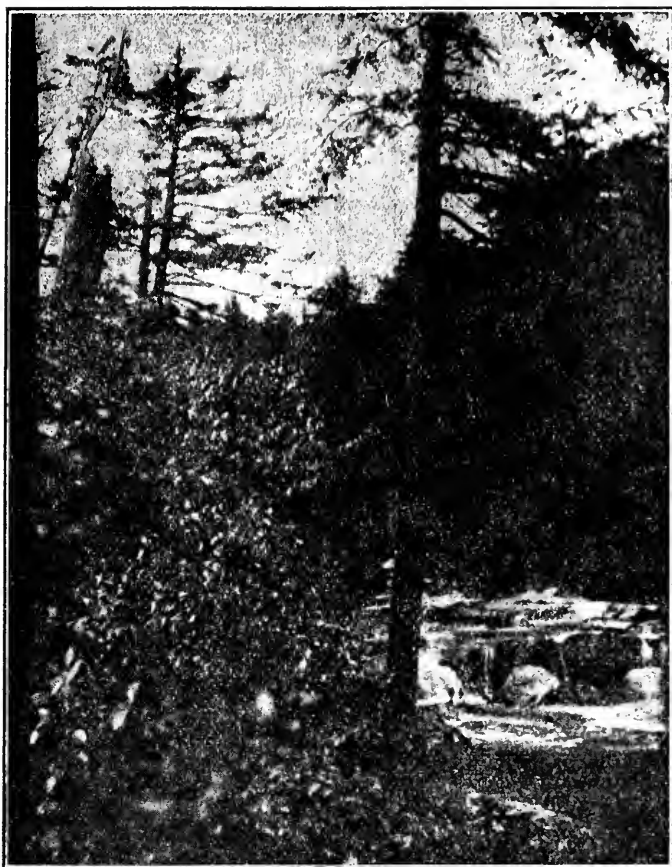
In our opinion another hatchery should be built for the Western Shore and equipped to take care of the increased demand for brook trout and other fry. Also that the Hatchery at Druid Hill Park be re-equipped, as the present equipment has been in use for nearly forty years and consequently in bad condition. To do this work an appropriation should be granted by the next Legislature, large enough to cover the cost.

We desire to express our thanks to the U. S. Fish Commissioner for courtesies extended the Maryland Fish Commission and to State Game Warden Horace F. Harmonson, Esq., for his co-operation with our work. Also to the newspapers of the State for their flattering reports of the work of this department of your administration.

Respectfully submitted,

SAMUEL J. TWILLEY,
Fish Commissioner for the Eastern Shore.

JOHN H. WADE, M. D.,
Fish Commissioner for the Western Shore.



WHERE TROUT ARE TO BE FOUND.

**Distribution of Brook Trout and Black Bass from Maryland State
Hatchery, Druid Hill Park, 1910.**

| DATE. | APPLICANT. | WHERE DISTRIBUTED. |
|-----------|------------------------|--------------------------------------|
| Feb. 16. | J. Hopkins Smith, Jr. | Dimits Branch, Baltimore Co. |
| Feb. 22 | Wm. Waller Cullen.... | Tuscarora, Frederick Co. |
| March 22 | Talbott Denmead.... | Stream, Baltimore Co. |
| March 22. | Cumberland Dugan.... | Stream, Baltimore Co. |
| March 22. | James C. Gittings.... | Beaver Run, Carroll, Co. |
| March 22. | William Lynch..... | Morrison Branch, Baltimore Co. |
| March 22. | J. F. Billingslea..... | Lancaster Branch, Baltimore Co. |
| March 22. | Henry A. Haker..... | Pond, Prince George's Co. |
| March 23. | George Kinna..... | Hunting Creek, Frederick Co. |
| March 23. | P. C. Gorman..... | Beaver Run, Prince George's Co. |
| March 23. | Edward A. Coekey.... | Butler's Stream, Baltimore Co. |
| March 24. | Josiah P. Wiley..... | Falling Branch, Harford Co. |
| March 25. | Irving E. McCullough. | Cold Spring, Baltimore Co. |
| March 25. | William E. Armacost.. | Stream in Baltimore Co. |
| March 26. | W. C. Todd..... | Silver Lake, Caroline Co. |
| March 26. | J. J. Benson..... | Pond in Anne Arundel Co. |
| March 26. | Charles H. Isley | Mine Branch, Harford Co. |
| March 28. | Millard F. Randolph.. | Pond in Montgomery Co. |
| March 28. | Thomas F. Nagle.... | Thomas' Run, Harford Co. |
| March 28. | J. W. F. Burgoon.... | Gunpowder Falls, Carroll Co. |
| March 29. | George T. Sherman... | Williams' Stream, Harford Co. |
| March 29. | S. H. Mitchell..... | Bread and Cheese Br'neh, Harford Co. |
| March 29. | Norman Z. Hoke..... | Town's Creek, Frederick Co. |
| March 29. | Wm. F. Eckenrode.... | Fairview Pond, Carroll Co. |
| March 29. | Runerna H. Hewitt... | Pond in Montgomery Co. |
| March 29. | Francis B. Staub.... | Mountain stream, Frederick Co. |
| March 29. | Edward Quarles.... | Tobacco Run, Harford Co. |
| March 29. | George W. Crum..... | Biser's Creek, Frederick Co. |
| March 29. | John S. Harman.... | Beaver Run, Carroll Co. |
| March 30. | H. C. Harris | Stream in Baltimore Co. |
| March 30. | T. Melville Pearce... | Barns' Branch, Baltimore Co. |
| March 30. | Dominico Gianpooli... | Deep Run, Howard Co. |
| March 30. | William R. Titus..... | Titus' Pond, Frederick Co. |
| March 30. | Thomas P. Dukelhart .. | Lee's Branch, Baltimore Co. |
| March 31. | J. Herbert Hook..... | Whitemarsh Run, Baltimore Co. |
| March 31. | Charles V. Harp..... | Pond in Frederick Co. |
| March 31. | A. S. Ripple..... | Piscataway Creek, Prince G'rge's Co. |
| April 1. | Jacob Eckstine..... | Millspring, Washington Co. |
| April 2. | J. E. Morgan..... | Pond in Queen Anne's Co. |
| March 2. | R. L. Purnell..... | Trappe Creek, Worcester Co. |
| April 2. | Franklin P. Fenby.... | Stream, Harford Co. |
| April 2. | E. W. Day..... | Santee Branch, Baltimore Co. |
| April 4. | Wallace Broadbelt... | Pond in Anne Arundel Co. |
| April 4. | Richard M. Harkins .. | Murphy's Branch, Harford Co. |

| DATE. | APPLICANT. | WHERE DISTRIBUTED. |
|-----------|------------------------|---------------------------------|
| April 4. | B. C. Knetzer..... | Red Run, Baltimore Co. |
| April 4. | William M. Harris.... | Poe's Branch, Carroll Co. |
| April 5. | Thomas G. Mumford.. | Carroll Creek, Frederick Co. |
| April 5. | B. Harrison Bright.... | Bright's Pond, Queen Anne's Co. |
| April 5. | Charles S. Hilton..... | Hilton's Pond, Montgomery Co. |
| April 5. | D. C. Dayhoff..... | Little Antietam, Washington Co. |
| April 5. | R. Ragan Spencer.... | Black Rock, Baltimore Co. |
| April 7. | James Burch..... | Spring Run, St. Mary's Co. |
| April 11. | John W. Burns..... | Mine Run, Baltimore Co. |

Distribution of Brook Trout and Black Bass From Maryland State Hatchery, Druid Hill Park, 1911.

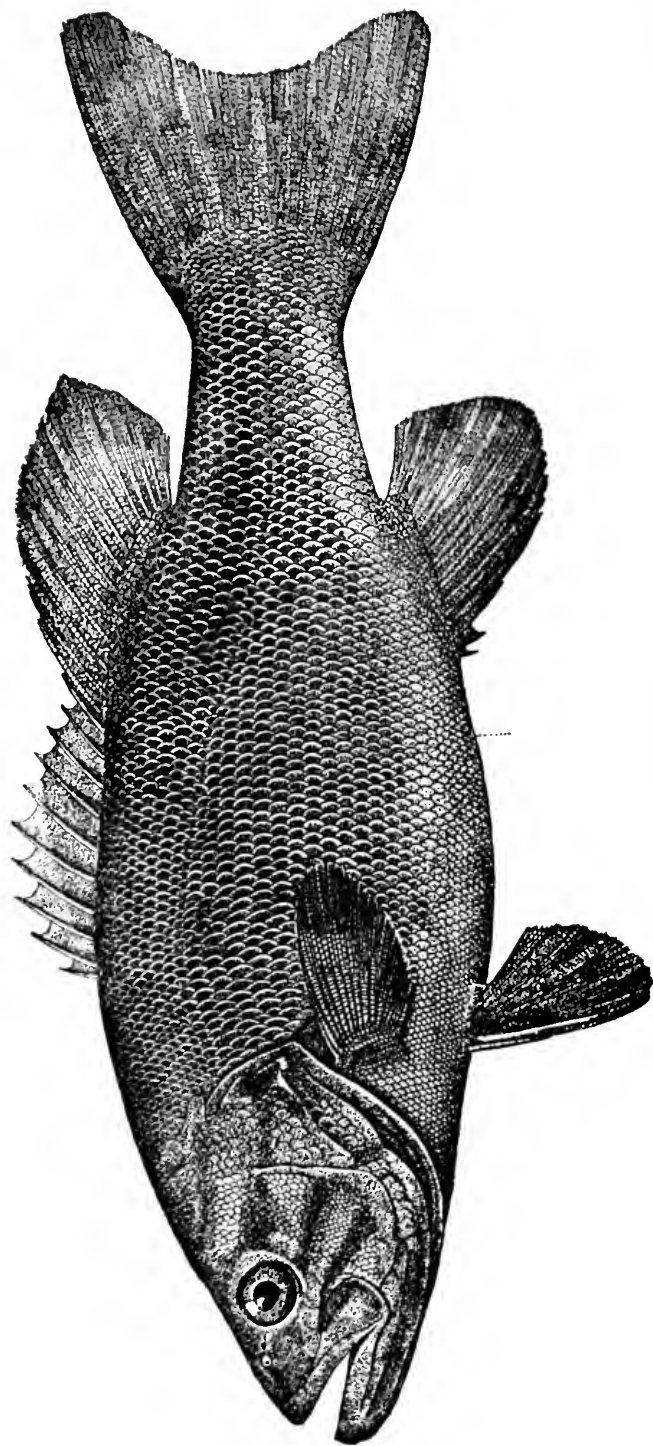
| DATE. | APPLICANT. | WHERE DISTRIBUTED. |
|-----------|-------------------------|-------------------------------------|
| Jan. 26. | William J. Grove..... | Old Quarry, Frederick Co. |
| Feb. 9. | R. Ragan Spencer.... | North Run, etc., Baltimore Co. |
| Feb. 9. | Thomas W. Offet..... | Riders Run, Baltimore Co. |
| Feb. 9. | Sifford Pearre..... | Stream, Baltimore Co. |
| Feb. 9. | James L. Goodwin.... | Pond, in Baltimore Co. |
| Feb. 15. | George Brown, Jr..... | Dipping Pond, Baltimore Co. |
| Feb. 15. | Thomas G. Fisher.... | Poplar Lick, Garrett Co. |
| March 1. | Van Lear Black..... | Patuxent, Howard Co. |
| March 1. | William Middleditch.. | Hazeldel, Harford Co. |
| March 1. | William Fell Johnson.. | Monks Branch, Baltimore Co. |
| March 1. | W. T. Hignutt..... | Millpond, Caroline Co. |
| March 1. | Louis C. Etchison.... | Poplar Branch, Frederick Co. |
| March 3. | I. Robert Lichlustem.. | Bennet's Creek, Frederick Co. |
| March 4. | Frederick Todd..... | Branch of G. S., Baltimore Co. |
| March 4. | Xaverian Brotherhood.. | Xavier Brook, St. Mary's Co. |
| March 6. | George Kinney..... | Hunting Creek, Frederick Co. |
| March 6. | Martin E. Horst..... | Farm Spring, Washington Co. |
| March 6. | Albert S. Braun..... | Anto, Baltimore Co. |
| March 6. | N. E. Miller..... | Pleasant Valley, Baltimore Co. |
| March 6. | T. J. Miller..... | Miller's Pond, Baltimore Co. |
| March 6. | D. C. Payhoff..... | Lit. Antietam, Washington Co. |
| March 6. | Wilbert Hutchins..... | Hutchins Stream, Baltimore Co. |
| March 6. | Dr. E. Almony..... | Charles Run, Baltimore Co. |
| March 8. | F. W. Fraley.... | Mountain Stream, Frederick Co. |
| March 8. | William N. Mays..... | Trib. to Lit. Gunpowder, Balto. Co. |
| March 9. | Elmer Hendrix..... | Stream, Baltimore Co. |
| March 9. | Valentine B. Reichard.. | Stream, Washington Co. |
| March 10. | J. Thomas Davis..... | Hunting Creek, Frederick Co. |
| March 10. | W. C. Hammond..... | Cat Tail Creek, Howard Co. |

| DATE. | APPLICANT. | WHERE DISTRIBUTED. |
|-----------|------------------------|------------------------------------|
| March 12. | Robert Lee Hartle..... | Lit. Antletam, Washington Co. |
| March 13. | H. N. Ankeney..... | Lit. Conococheagu, Washington Co. |
| March 13. | Henry H. Ducker..... | Hollingsworth Branch, Balto. Co. |
| March 14. | Jesse C. Coggnis..... | Sanitarium Lake, Pr. George's Co. |
| March 15. | Bruce V. Hoffman..... | Lit. Antletam, Washington Co. |
| March 16. | J. G. M. Reese..... | Stream, Baltimore Co. |
| March 18. | James E. Higman..... | Mill Pond, Queen Anne's Co. |
| March 18. | David H. Snively..... | Branch of Antletam, Washington Co. |
| March 20. | John M. Walker..... | Red Run, Baltimore Co. |
| March 20. | Charles I. Grim..... | Stream, Washington Co. |
| March 21. | S. W. Pfoutz..... | Priest Land Branch, Carroll Co. |
| March 21. | W. H. Forsythe..... | Hickey's Branch, Howard Co. |
| March 21. | John M. Dennis..... | Pond, in Baltimore Co. |
| March 21. | G. H. McPherson..... | Saw Mill Branch, Anne Arundel Co. |
| March 21. | Wade H. Crossmore..... | Big Gunpowder, Baltimore Co. |
| March 22. | Samuel English..... | Roek Creek, Montgomery Co. |
| March 22. | J. Frank Huff..... | Mill Run Branch, Harford Co. |
| March 22. | James C. Forsyth..... | Hickey's Branch, Howard Co. |
| March 24. | V. R. Cline..... | Middle Creek, Frederick Co. |
| March 24. | William R. Blunk..... | Stream, Carroll Co. |
| March 24. | Robinson C. Waters.... | Feeder to Plney Creek, Balto. Co. |
| March 26. | Gilbert B. Benson..... | Huckelberry Creek, Baltimore Co. |
| March 27. | William H. Grothe.... | Pond, Baltimore Co. |
| March 27. | John G. Bassler..... | Pond, Howard Co. |
| March 30. | Lewis T. Street..... | White Marsh Run, Baltimore Co. |
| March 30. | Thomas J. Lindsey.... | Stream, Carroll Co. |
| Apr. 1. | Dr. H. J. Burton..... | Stream, Baltimore Co. |
| Apr. 1. | T. S. Fitchett..... | Laurel Brook, Harford Co. |
| Apr. 1. | W.V. Winemiller & Bro. | Billingsley Branch, Balto. Co. |
| Apr. 3. | James S. Durvall..... | West Stream, Montgomery Co. |
| Apr. 5. | Frank Billingslea..... | Whiteford Branch, Harford Co. |

Distribution of Perch from State Hatchery, Druid Hill Park, 1911.

| DATE. | APPLICANT. | WHERE DISTRIBUTED. |
|-----------|------------------------|--------------------------------|
| Feb. 7. | J. A. Zimmerman | Severn River, Anne Arundel Co. |
| Feb. 28. | Arthur Boehm..... | Severn River, Anne Arundel Co. |
| March 4. | J. DeCoursey Brennan | Severn River, Anne Arundel Co. |
| March 6. | John K. Rice | Severn River, Anne Arundel Co. |
| March 8. | J. Fill Legg..... | Lake Anna, Queen Anne's Co. |
| March 8. | R. E. Zimmerman..... | Severn River, Anne Arundel Co. |
| March 16. | Arthur D. Foster..... | Severn River, Anne Arundel Co. |
| March 20. | John M. Walker..... | Red Run, Baltimore Co. |
| March 26. | Gilbert B. Benson..... | Stream in Baltimore Co. |

| DATE. | APPLICANT. | WHERE DISTRIBUTED. |
|-----------|-------------------------|--------------------------------|
| March 27. | Osear Weems..... | Gales Lake, Kent Co. |
| March 27. | J. N. Benson..... | Pond in Anne Arundel Co. |
| March 30. | Robt. S. Weisenfeld.... | Lake in Baltimore Co. |
| Apr. 1. | W. C. Hammond..... | Pond in Howard Co. |
| Apr. 3. | Samuel Adler..... | Pond in Baltimore Co. |
| Apr. 3. | Henry Matthews..... | Cat Tail Creek, Howard Co. |
| Apr. 13. | R. R. Milliner..... | Craney Lake, Queen Anne's Co. |
| Apr. 14. | Granville Heaps..... | Broad Creek, Harford Co. |
| Apr. 22. | John M. Little..... | Falls Stream, Baltimore Co. |
| May 4. | Dr. J. L. LeMar..... | Herring Run, Baltimore Co. |
| May 11. | Pembroke M. Wimbie.. | Severn River, Anne Arundel Co. |



BLACK BASS.

BROOK TROUT.

The brook trout is not only one of the most beautiful of our fishes, but, as every angler knows, is a fine game fish, while its flavor will delight the most epicurean taste. It prefers clear, cold, swift streams, such as is found in the western part of our State, and which, at one time, was thickly populated by this very fine game and food fish, and we believe that if the work of the last three or four years is continued, that once more many of those streams can be made to abound with brook trout and thus delight the heart of the angler and become a source of not only pleasure but profit to our people. Twenty years ago trout of two, three and even four pounds were not uncommon in Western Maryland. Those fine large trout were of the same species and variety as the fingerling, which many bring home nowadays boasting of their skill as anglers. No brook trout should be taken less than six inches. A trout five inches long is never over a year old and, therefore, has had no chance to spawn.

We have greatly increased the output of brook trout.

SHAD.

A great many persons have asked us how we know the shad returns to the place of its birth, and it gives us pleasure to tell the story in a condensed form so that the fact that the young shad will return in two or three years from the time it is planted to the river in which it is placed will be so impressed upon the minds of all that not a doubt will exist :

Prior to 1871, the shad was unknown to the Pacific coast. That year the United States Fish Commission carried from Havre de Grace, Maryland, a number of young shad such as we plant now in the rivers of this State, and planted them in the Sacramento river, California. Two years later the first shad ever seen in California waters was caught, the next year more were captured and the number has increased from year to year, until now California produces millions of

the finest shad known. After the shad spawns in the Spring it returns again to the ocean, the young do the same and return full grown to the fresh water stream where they first entered into life, ready to commence the increase of their kind.

The periodic movement of shad from the ocean into the fresh-water streams of the Atlantic Coast is one of its most characteristic and well-known habits. This migration begins in the early Winter in Florida and involves all suitable streams as far north as the Gulf of St. Lawrence, which is reached in midsummer. The influx in each basin proceeds gradually from south to north, and the arrival in a given locality is usually about the same time each year and can be predicted with considerable accuracy. Prior to this regular advent of the schools, no shad are in the rivers, and after the completion of the spawning process, which ensues immediately on reaching the headwaters, the adults return to the salt water, and only stragglers are found during the remainder of the season or until the following year.

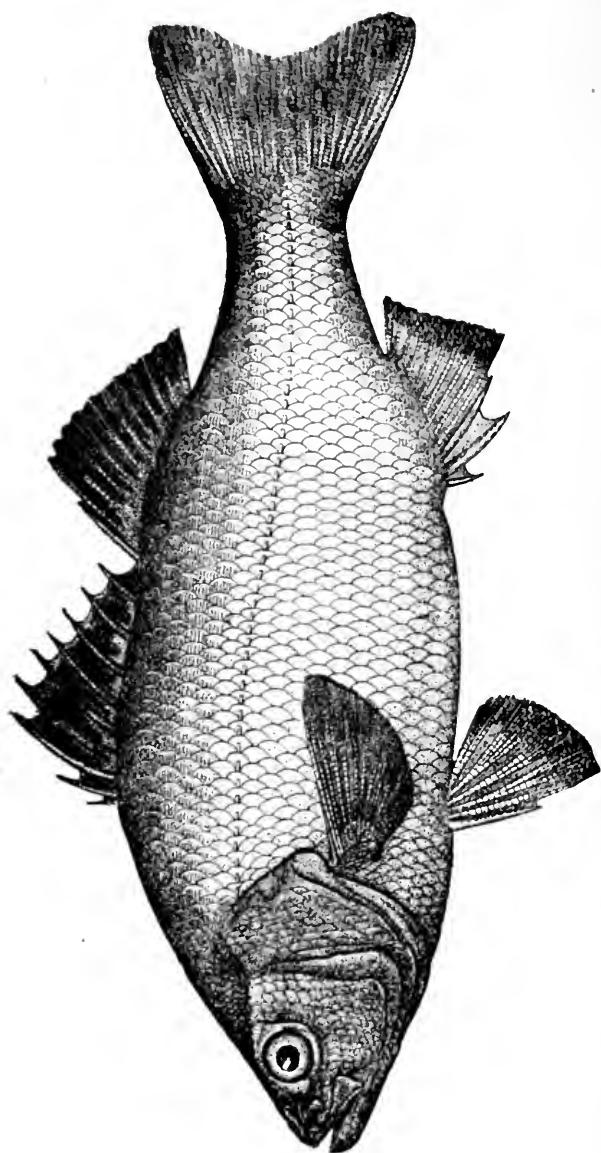
LARGE-MOUTHED BLACK BASS.

It is next to impossible to successfully obtain Bass eggs for artificial propagation and the only way they have been obtained is by pond breeding. We have been able to obtain from the United States Fish Commission, through the indorsements of Senators Isidor Rayner and John Walter Smith, quite a number of fingerling bass, which have been planted in numerous ponds and rivers in Maryland. The large-mouthed black bass is second only to its congener, the small-mouthed species, as a game fish. On the Pocomoke river in Worcester county it is caught by means of the artificial fly and artificial minnow, both of which it takes voraciously and makes a good fight before it is landed. This fish has many vernacular names, among which may be mentioned: Large-mouthed black bass, straw bass, green bass, welshman, chub, and many others, more or less absurd. The

most distinctive and expressive name is doubtless large-mouthed black bass. In the western section of the State bass have been plentiful for many years, but it is absolutely necessary to replenish the streams each year because of the great destruction going on at all times.

YELLOW PERCH.

This fish is now greatly in demand as a winter fish. In most parts of its range it is highly esteemed, and in many places it is of very considerable commercial importance, and this can truthfully be said of our own State. The Baltimore markets are an evidence of this statement. In the winter months a visit to the fish stalls in the several markets of Baltimore city will convince one that the commercial value of the yellow perch has not been overstated by your Commissioners. As a game fish the yellow perch can be commended chiefly on account of the fact that anybody can catch it. It can be taken with the hook and line any month in the year and with any kind of bait—angle worms, grubs, small minnows, pieces of fish and the artificial fly. It is easily taken through the ice in winter, when small minnows are the best bait. A yellow perch in the Fish Commission aquarium at Washington deposited a string of eggs three feet four inches long, four inches wide at one end and two at the other. After being fertilized this string weighed two pounds nine ounces, while the weight of the fish before the eggs were discharged was one pound eight ounces. The eggs are very small, measuring only one-eighteenth of an inch in diameter, and requiring 28,000 to the quart. This fish is not prized so highly as the white perch, but it is an excellent substitute when the white perch is unobtainable.



WHITE PERCH.

HATCHING OPERATIONS
OF THE
Commissioner of Fisheries
FOR THE
EASTERN SHORE
1910-1911.

White Perch Hatched at St. Martin's Hatchery,
March 21, 1910, to April 9, 1910.

| <i>Date.</i> | <i>Eggs Obtained.</i> | <i>Fish Hatched.</i> |
|---------------|---------------------------|--------------------------|
| March 21..... | 300,000 | 275,000 |
| March 22..... | 400,000 | 300,000 |
| March 24..... | 500,000 | 400,000 |
| March 25..... | 500,000 | 400,000 |
| March 26..... | 350,000 | 280,000 |
| March 30..... | 200,000 | 150,000 |
| April 2..... | 1,500,000 | 1,400,000 |
| April 4..... | 500,000 | 400,000 |
| April 7..... | 25,000 | 20,000 |
| April 8..... | 25,000 | 20,000 |
| April 9..... | 50,000 | 40,000 |
| | <hr/> 4,350,000 | <hr/> 3,285,000 |

WHERE DEPOSITED.

| | |
|----------------------------------|-----------------|
| St. Martin's River..... | 275,000 |
| St. Martin's River..... | 300,000 |
| Pocomoke River..... | 400,000 |
| Trappe Creek..... | 400,000 |
| Showell Creek..... | 280,000 |
| Pocomoke River..... | 150,000 |
| St. Martin's River..... | 1,400,000 |
| Manokin and Pocomoke Rivers..... | 400,000 |
| Manokin River..... | 20,000 |
| Perkin's Creek..... | 40,000 |
| | <hr/> 3,285,000 |

HENRY T. BELL,
Deputy.

Yellow Perch Hatched at St. Martin's Hatchery

From March 14, 1910 to March 31, 1910.

| <i>Date</i> | <i>Eggs Obtained.</i> | <i>Fish Hatched.</i> |
|---------------|---------------------------|--------------------------|
| March 14..... | 1,000,000 | 900,000 |
| “ 15..... | 2,000,000 | 1,700,000 |
| “ 16..... | 2,000,000 | 1,800,000 |
| “ 17..... | 1,500,000 | 1,450,000 |
| “ 18..... | 1,500,000 | 1,250,000 |
| “ 21..... | 3,500,000 | 3,250,000 |
| “ 22..... | 2,000,000 | 1,800,000 |
| “ 23..... | 2,000,000 | 1,800,000 |
| “ 24..... | 1,000,000 | 900,000 |
| “ 25..... | 2,000,000 | 1,800,000 |
| “ 28..... | 1,000,000 | 900,000 |
| “ 30..... | 500,000 | 450,000 |
| “ 31..... | 500,000 | 450,000 |
| | <hr/> 20,500,000 | <hr/> 18,050,000 |

WHERE DEPOSITED.

| | |
|--------------------------|------------------|
| St. Martin's river | 900,000 |
| Manklin's creek..... | 1,700,000 |
| Showell creek..... | 1,800,000 |
| Taylor's creek..... | 1,450,000 |
| Herring creek..... | 1,250,000 |
| St. Martin's river | 3,250,000 |
| Trappe creek..... | 1,800,000 |
| Pocomoke river..... | 1,800,000 |
| Wicomico river..... | 900,000 |
| St. Martin's river | 1,800,000 |
| Pocomoke river | 900,000 |
| Ayres creek..... | 450,000 |
| St. Martin's river..... | 450,000 |
| | <hr/> 18,050,000 |

HENRY T. BELL,
Deputy.

White Perch Hatched at St. Martin's Hatchery,
March 15 to 31, 1911.

| <i>Date.</i> | <i>Eggs Obtained.</i> | <i>Fish Hatched.</i> |
|----------------|---------------------------|--------------------------|
| March 15... .. | 1,000,000 | 900,000 |
| March 20... .. | 50,000 | 40,000 |
| March 25... .. | 900,000 | 800,000 |
| March 29... .. | 1,000,000 | 900,000 |
| March 31... .. | 50,000 | 40,000 |
| | <hr/> 3,000,000 | <hr/> 2,680,000 |

WHERE DEPOSITED.

| | |
|--------------------------|-----------------|
| Pocomoke River... .. | 900,000 |
| Pocomoke River... .. | 40,000 |
| St. Martin's River... .. | 800,000 |
| St. Martin's River... .. | 900,000 |
| St. Martin's River... .. | 40,000 |
| | <hr/> 2,680,000 |

HENRY T. BELL,
Deputy.

Yellow Perch Hatched at St. Martin's Hatchery,

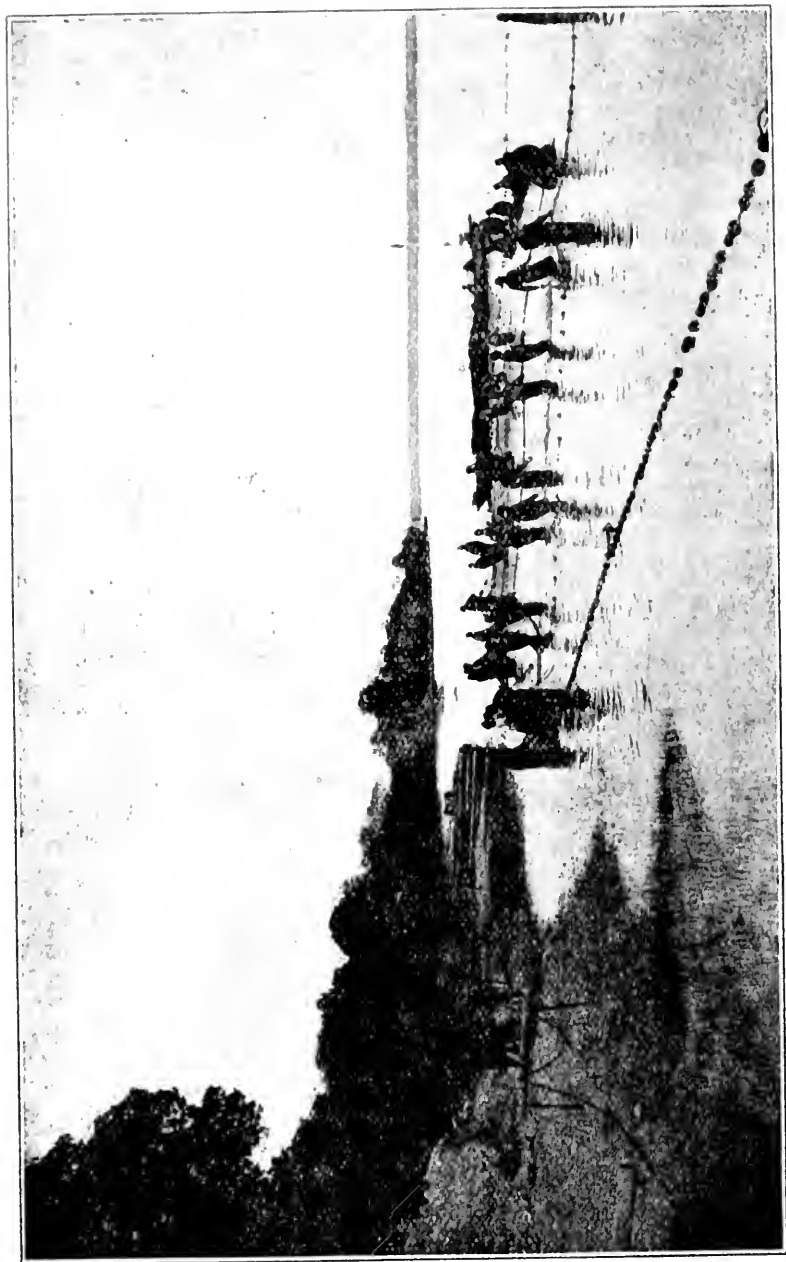
From March 10 to 31, 1911.

| <i>Date.</i> | <i>Eggs Obtained.</i> | <i>Fish Hatched.</i> |
|---------------|---------------------------|--------------------------|
| March 10..... | 1,000,000 | 900,000 |
| March 11..... | 500,000 | 300,000 |
| March 13..... | 2,000,000 | 1,500,000 |
| March 14..... | 1,000,000 | 800,000 |
| March 15..... | 2,000,000 | 1,900,000 |
| March 16..... | 500,000 | 400,000 |
| March 17..... | 2,000,000 | 1,500,000 |
| March 18..... | 1,000,000 | 800,000 |
| March 20..... | 2,000,000 | 1,600,000 |
| March 22..... | 2,000,000 | 1,800,000 |
| March 23..... | 1,800,000 | 1,500,000 |
| March 24..... | 1,000,000 | 900,000 |
| March 25..... | 2,000,000 | 1,900,000 |
| March 27..... | 3,000,000 | 2,500,000 |
| March 28..... | 500,000 | 300,000 |
| March 29..... | 500,000 | 400,000 |
| March 31..... | 500,000 | 400,000 |
| | <hr/> 23,300,000 | <hr/> 19,400,000 |

WHERE DEPOSITED.

| | |
|-------------------------|------------------|
| St. Martin's River..... | 1,200,000 |
| Pocomoke River..... | 1,500,000 |
| St. Martin's River..... | 800,000 |
| Pocomoke River..... | 1,900,000 |
| Manokin River..... | 2,300,000 |
| At Kingston..... | 1,600,000 |
| At Snow Hill..... | 1,800,000 |
| Wicomico River..... | 1,900,000 |
| Wicomico River..... | 900,000 |
| St. Martin's River..... | 1,900,000 |
| Trappe Creek..... | 2,500,000 |
| St. Martin's River..... | 1,100,000 |
| | <hr/> 19,400,000 |

HENRY T. BELL,
Deputy.



HAULING SEINE FOR SHAD.

Sharptown Hatching House, 1910.

| | <i>Yellow Perch Stripped.</i> | <i>Fry Obtained</i> |
|----------------------------|-----------------------------------|-------------------------|
| Monday, March 28th..... | 400 | 12,000,000 |
| Tuesday, March 29th..... | 600 | 18,000,000 |
| Wednesday, March 30th..... | 600 | 18,000,000 |
| Thursday, March 31st..... | 500 | 15,000,000 |
| Friday, April 1st..... | 40 | 1,200,000 |
| Saturday, April 2d..... | 40 | 1,200,000 |
| | <hr/> 2,180 | <hr/> 65,400,000 |

TURNED OUT:

| | |
|-----------------------------------|------------------|
| March 30th, Nanticoke river..... | 12,000,000 |
| March 31st, Nanticoke river..... | 18,000,000 |
| April 1st, Nanticoke river..... | 18,000,000 |
| April 2d, Nanticoke river..... | 15,000,000 |
| April 4th, Marshy Hope river..... | 1,200,000 |
| April 5th, Marshy Hope river..... | 1,200,000 |
| | <hr/> 65,400,000 |

S. P. TWIFORD,
Deputy.

Sharptown Hatching House, 1910.

| | <i>"White Perch"</i> <i>Stripped.</i> | <i>Fry</i> <i>Obtained.</i> |
|----------------------------|--|--------------------------------|
| Monday, March 28th..... | 20 | 600,000 |
| Tuesday, March 29th..... | 15 | 450,000 |
| Wednesday, March 30th..... | 25 | 750,000 |
| Thursday, March 31st..... | 30 | 900,000 |
| Friday, April 1st..... | 30 | 900,000 |
| Saturday, April 2d..... | .. | ..... |
| Monday, April 4th..... | 50 | 1,500,000 |
| Tuesday, April 5th..... | 30 | 900,000 |
| Wednesday, April 6th..... | 30 | 900,000 |
| Thursday, April 7th..... | 30 | 900,000 |
| Friday, April 8th..... | 30 | 900,000 |
| Saturday, April 9th..... | 25 | 750,000 |
| Monday, April 11th..... | 25 | 750,000 |
| Tuesday, April 12th..... | 30 | 900,000 |
| Wednesday, April 13th..... | 45 | 1,350,000 |
| Thursday, April 14th..... | 35 | 1,050,000 |
| Friday, April 15th..... | 20 | 600,000 |
| Saturday, April 16th..... | 10 | 300,000 |
| Monday, April 18..... | 20 | 600,000 |
| | <hr/> 500 | <hr/> 15,000,000 |

TURNED OUT.

| | |
|---------------------------------|------------------|
| April 2, Marshy Hope river..... | 1,050,000 |
| 5, " " "..... | 1,650,000 |
| 6, Nanticoke river..... | 900,000 |
| 8, " " "..... | 1,500,000 |
| 9, " " "..... | 900,000 |
| 13, " " "..... | 1,800,000 |
| 14, " " "..... | 1,650,000 |
| 15, " " "..... | 1,650,000 |
| 18, " " "..... | 2,400,000 |
| 19, Plumb Creek..... | 600,000 |
| 21, " " "..... | 600,000 |
| | <hr/> 15,000,000 |

S. P. TWIFOLD,
Deputy.

Sharptown Hatching House, 1910.

| | <i>Shad Stripped.</i> | <i>Fry Obtained.</i> |
|----------------------------|---------------------------|--------------------------|
| Monday, April 4th..... | 3 | 90,000 |
| Tuesday, April 5th..... | 7 | 210,000 |
| Wednesday, April 6th..... | 7 | 210,000 |
| Thursday, April 7th..... | 4 | 120,000 |
| Friday, April 8th..... | 5 | 150,000 |
| Saturday, April 9th..... | .. | ..... |
| Monday, April 11th..... | 4 | 120,000 |
| Tuesday, April 12th..... | 6 | 180,000 |
| Wednesday, April 13th..... | 5 | 150,000 |
| Thursday, April 14th..... | 4 | 120,000 |
| Friday, April 15th..... | 6 | 180,000 |
| Saturday, April 16th..... | .. | ..... |
| Monday, April 18th..... | 5 | 150,000 |
| Tuesday, April 19th..... | 4 | 120,000 |
| Wednesday, April 20th..... | 5 | 150,000 |
| Thursday, April 21st..... | 4 | 120,000 |
| Friday, April 22d..... | 2 | 60,000 |
| Saturday, April 23d..... | .. | ..... |
| Monday, April 25th..... | 2 | 60,000 |
| Tuesday, April 26th..... | 4 | 120,000 |
| Wednesday, April 27th..... | 5 | 150,000 |
| Thursday, April 28th..... | 3 | 90,000 |
| Friday, April 29th..... | 2 | 60,000 |
| Saturday, April 30th..... | .. | ..... |
| Monday, May 2d..... | 6 | 180,000 |
| Tuesday, May 3d..... | .. | ..... |
| Wednesday, May 4th..... | .. | ..... |
| Thursday, May 5th..... | .. | ..... |
| Friday, May 6th..... | 2 | 60,000 |
| Saturday, May 7th..... | 2 | 60,000 |
| | <hr/> 97 | <hr/> 2,910,000 |

TURNED OUT.

| | |
|--|-----------------|
| April 10, Nanticoke River, Cooper's Wharf..... | 300,000 |
| 13, Marshy Hope River..... | 330,000 |
| 14, Nanticoke River, Knowles' Wharf..... | 150,000 |
| 16, Marshy Hope River..... | 300,000 |
| 18, Laurel River..... | 270,000 |
| 20, Nanticoke River, Truitt's Wharf..... | 180,000 |
| 25, Nanticoke River, Riverton..... | 420,000 |
| 28, Nanticoke River, Sandy Point..... | 180,000 |
| 30, Nanticoke River, Knowles' Wharf..... | 180,000 |
| May 4, Nanticoke River, Ellis' Wharf..... | 300,000 |
| 6, Nanticoke River, Dickerson's Wharf..... | 180,000 |
| 11, Nanticoke River, Ferry Landing..... | 120,000 |
| | <hr/> 2,910,000 |

S. P. TWIFORD,
Deputy.

Sharptown Hatching House, 1911.

| | <i>Yellow Perch Stripped.</i> | <i>Fry Obtained.</i> |
|----------------------------|-----------------------------------|--------------------------|
| Tuesday, March 28th..... | 75 | 2,250,000 |
| Wednesday, March 29th..... | 50 | 1,500,000 |
| Thursday, March 30th..... | 40 | 1,200,000 |
| Friday, March 31st..... | 100 | 3,000,000 |
| Saturday, April 1st..... | 100 | 3,000,000 |
| Monday, April 3d..... | 175 | 5,250,000 |
| Tuesday, April 4th..... | 150 | 4,500,000 |
| Wednesday, April 5th..... | 240 | 7,200,000 |
| Thursday, April 6th..... | 100 | 3,000,000 |
| Friday, April 7th..... | 75 | 2,250,000 |
| Saturday, April 8th..... | 50 | 1,500,000 |
| | <hr/> 1,155 | <hr/> 34,650,000 |

TURNUED OUT.

| | |
|--------------------------------|-----------|
| April 3d, Nanticoke River..... | 2,250,000 |
| 4th, Marshy Hope River..... | 2,700,000 |
| 7th, Nanticoke River..... | 6,000,000 |
| 8th, Marshy Hope River..... | 5,250,000 |
| 10th, Nanticoke River..... | 4,500,000 |
| 11th, " "..... | 7,200,000 |
| 12th, " "..... | 3,000,000 |
| 13th, " "..... | 2,250,000 |
| 14th, " "..... | 1,500,000 |

S. P. TWIFORD,
Deputy.

Sharptown Hatching House 1911.

| | <i>White Perch Stripped.</i> | <i>Fry Obtained.</i> |
|---------------------------|----------------------------------|--------------------------|
| Monday, May 1st | 25 | 750,000 |
| Tuesday, May 2nd | 30 | 900,000 |
| Wednesday, May 3rd | 20 | 600,000 |
| Thursday, May 4th | 40 | 1,200,000 |
| Friday, May 5th | 30 | 900,000 |
| Saturday, May 6th | 30 | 900,000 |
| Monday, May 8th | 20 | 600,000 |
| Tuesday, May 9th | 25 | 750,000 |
| Wednesday, May 10th | 15 | 450,000 |
| Thursday, May 11th | 15 | 450,000 |
| Friday, May 12th | 8 | 240,000 |
| Saturday, May 13 | 12 | 360,000 |
| | <hr/> 270 | <hr/> 8,100,000 |

TURNED OUT.

| | |
|-------------------------------------|-----------|
| May 4, Marshy Hope River | 1,650,000 |
| 9, Nanticoke River | 1,800,000 |
| 11, Nanticoke River Riverton | 1,800,000 |
| 15, Marshy Hope River | 1,350,000 |
| 16, Nanticoke, Knowles' Wharf | 450,000 |
| 22, Wicomico River, Salisbury | 1,050,000 |

S. P. TWIFORD,

Deputy.

Sharptown Hatching House, 1911.

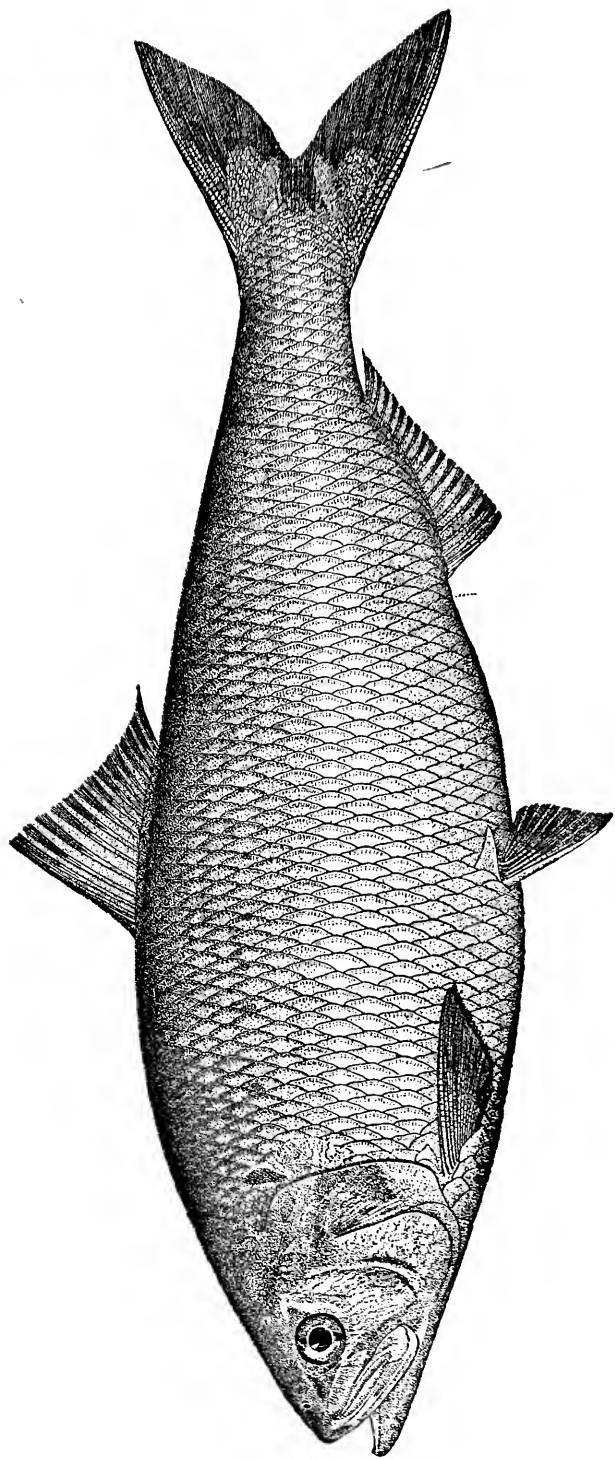
| | <i>Shad Stripped.</i> | <i>Fry Obtained.</i> |
|----------------------------|---------------------------|--------------------------|
| Monday, April 17th..... | 5 | 150,000 |
| Tuesday, April 18th..... | 3 | 90,000 |
| Wednesday, April 19th..... | 4 | 120,000 |
| Thursday, April 20th..... | 6 | 180,000 |
| Friday, April 21st..... | 8 | 240,000 |
| Saturday, April 22d..... | 7 | 210,000 |
| Monday, April 24th..... | 2 | 60,000 |
| Tuesday, April 25th..... | 7 | 210,000 |
| Wednesday, April 26th..... | 9 | 270,000 |
| Thursday, April 27th..... | 8 | 240,000 |
| Friday, April 28th..... | 10 | 300,000 |
| Saturday, April 29th..... | 6 | 180,000 |
| Monday, May 1st..... | 4 | 120,000 |
| Tuesday, May 2d..... | 7 | 210,000 |
| Wednesday, May 3d..... | 10 | 300,000 |
| Thursday, May 4th..... | 9 | 270,000 |
| Friday, May 5th..... | 8 | 240,000 |
| Saturday, May 6th..... | 6 | 180,000 |
| Monday, May 8th..... | 10 | 300,000 |
| Tuesday, May 9th..... | 10 | 300,000 |
| Wednesday, May 10th..... | 6 | 180,000 |
| Thursday, May 11th..... | 10 | 300,000 |
| Friday, May 12th..... | 8 | 240,000 |
| | <hr/> 163 | <hr/> 4,890,000 |

TURNED OUT.

| | |
|--|---------|
| April 24th, Nanticoke River, Cooper's Wharf..... | 240,000 |
| 26th, Nanticoke River, Knowles' Wharf..... | 300,000 |
| 28th, Nanticoke River, Truitt's Wharf..... | 450,000 |
| 29th, Nanticoke River, Wheatley Wharf..... | 270,000 |
| May 3d, Nanticoke River, Riverton..... | 510,000 |
| 4th, Nanticoke River, Sandy Point..... | 480,000 |
| 8th, Marshy Hope River..... | 630,000 |
| 11th, Nanticoke River, Cooper's Wharf..... | 690,000 |
| 15th, Marshy Hope River..... | 780,000 |
| 17th, Nanticoke River, Ellis' Wharf..... | 540,000 |

S. P. TWIFORD,

Deputy.



SHAD.

Tuckahoe Hatching House, 1910.

Perch stripped..... 2150.

| WHERE DISTRIBUTED. | <i>Fry Obtained.</i> |
|---|----------------------|
| Watts Creek, Choptank River..... | 1,000,000 |
| Wye Creek..... | 1,500,000 |
| Miles River..... | 1,500,000 |
| Cambridge..... | 2,000,000 |
| Greensboro, Choptank River..... | 2,000,000 |
| Lloyds, Tuckahoe River..... | 1,000,000 |
| At Station, Tuckahoe River..... | 10,000,000 |
| White Perch at Station, Tuckahoe River..... | 2,000,000 |
| Total..... | 21,000,000 |

Shad for 1910.

Shad Stripped..... 207.

| WHERE DISTRIBUTED. | <i>Fry Obtained.</i> |
|--|----------------------|
| April 22d, At Station, Tuckahoe..... | 75,000 |
| 23d, Greensboro, Choptank River..... | 500,000 |
| 28th, Millington, Chester River..... | 500,000 |
| 30th, At Station, Tuckahoe..... | 1,000,000 |
| May 2d, Federalsburg, Nanticoke River..... | 250,000 |
| 2d, At Station, Tuckahoe..... | 750,000 |
| 4th, At Pocomoke River..... | 1,000,000 |
| 6th, Princess Anne..... | 600,000 |
| 6th, At Station, Tuckahoe..... | 1,000,000 |
| 6th, Miles River..... | 250,000 |
| 6th, Wye River..... | 250,000 |
| 9th, At Station, Tuckahoe..... | 500,000 |
| 12th, " " "..... | 800,000 |
| 14th, Watts Creek, Choptank River..... | 300,000 |
| 17th, Golden Hill, Chester River..... | 500,000 |
| 18th, Tan Yard, Choptank River..... | 500,000 |
| Total..... | 8,650,000 |

J. E. MORGAN,
*Deputy.***Tuckahoe Hatching Station, 1911.**

| | <i>Perch Stripped.</i> | <i>Fry Obtained.</i> |
|--------------------------|------------------------|----------------------|
| March 18th..... | 60 | 1,800,000 |
| 20th..... | 120 | 3,600,000 |
| 21st..... | 300 | 9,000,000 |
| 22d..... | 233 | 6,990,000 |
| 23d..... | 120 | 3,600,000 |
| 24th..... | 40 | 1,200,000 |
| 25th..... | 60 | 1,800,000 |
| Total fish stripped..... | 933 | 27,990,000 |

DISTRIBUTION OF PERCH.

| | |
|--|------------|
| April 16th, Watts' Creek, Choptank, River..... | 2,000,000 |
| 17th, Brick Mill, Choptank River..... | 2,000,000 |
| 17th, Greensboro, Choptank River..... | 3,000,000 |
| 18th, Millington, Chester River..... | 2,000,000 |
| 19th, Wye River..... | 3,000,000 |
| 21st, Miles River..... | 3,000,000 |
| 21st, At station, Tuckahoe..... | 5,000,000 |
| 22d, Centreville, Corsica River..... | 4,000,000 |
| 22d, Tredavon..... | 3,000,000 |
| Total..... | 27,000,000 |

J. E. MORGAN,

Deputy.

SHAD FOR 1911.

| | <i>Shad Stripped.</i> | <i>Fry Obtained.</i> |
|-----------------|---------------------------|--------------------------|
| April 11th..... | 4 | 120,000 |
| 14th..... | 6 | 180,000 |
| 19th..... | 7 | 210,000 |
| 20th..... | 11 | 330,000 |
| 21st..... | 9 | 270,000 |
| 24th..... | 10 | 300,000 |
| 25th..... | 8 | 240,000 |
| 26th..... | 9 | 270,000 |
| 27th..... | 14 | 420,000 |
| 28th..... | 12 | 360,000 |
| 29th..... | 13 | 390,000 |
| May 1st..... | 16 | 480,000 |
| 2d..... | 17 | 510,000 |
| 3d..... | 14 | 420,000 |
| 4th..... | 12 | 360,000 |
| 5th..... | 21 | 630,000 |
| 6th..... | 16 | 480,000 |
| 8th..... | 20 | 600,000 |
| 9th..... | 12 | 360,000 |
| 10th..... | 8 | 240,000 |
| 11th..... | 9 | 270,000 |
| 12th..... | 8 | 240,000 |
| Total..... | 256 | 7,680,000 |

DISTRIBUTION OF SHAD.

| | |
|--|-----------|
| April 23, At station, Tuckahoe..... | 100,000 |
| 26, Brick Mill, Choptank River..... | 250,000 |
| 29, Greensboro, Choptank River..... | 300,000 |
| 30, Millington, Chester River..... | 1,000,000 |
| 30, Georgetown Sassafra River..... | 1,000,000 |
| May 1, At station, Tuckahoe..... | 100,000 |
| 3, Miles River..... | 250,000 |
| 9, Wye River..... | 250,000 |
| 12, Salisbury..... | 1,800,000 |
| 13, Watts Creek, Choptank River..... | 250,000 |
| 14, Federalsburg, Nanticoke River..... | 500,000 |
| 15, Centreville..... | 500,000 |
| 15, At station, Tuckahoe..... | 500,000 |
| 17, At station, Tuckahoe..... | 1,200,000 |
| Total..... | 7,680,000 |

J. E. MORGAN, Dept.

Salisbury Hatching House, 1910.

SHAD.

| <i>Date.</i> | <i>Eggs Obtained.</i> | <i>Fish Hatched.</i> |
|-----------------|---------------------------|--------------------------|
| April 11th..... | ..... | ..... |
| 14th..... | ..... | ..... |
| 15th..... | 30,000 | 25,000 |
| 16th..... | 80,000 | 70,000 |
| 18th..... | 128,000 | 125,000 |
| 19th..... | 150,000 | 125,000 |
| 21st..... | 150,000 | 125,000 |
| 22d..... | 100,000 | 90,000 |
| 23d..... | 150,000 | 140,000 |
| 25th..... | 150,000 | 140,000 |
| 26th..... | 140,000 | 125,000 |
| 27th..... | ..... | ..... |
| 28th..... | 180,000 | 160,000 |
| 29th..... | 100,000 | 90,000 |
| 30th..... | 100,000 | 80,000 |
| May 2d..... | 200,000 | 180,000 |
| 3d..... | 250,000 | 225,000 |
| 4th..... | 50,000 | 40,000 |
| 5th..... | 50,000 | 40,000 |
| 7th..... | 50,000 | 40,000 |
| 10th..... | 40,000 | 25,000 |
| 13th..... | 50,000 | 30,000 |
| 14th..... | ..... | ..... |
| | <hr/> 2,148,000 | <hr/> 1,885,000 |

WHERE DISTRIBUTED.

| | |
|---------------------|-----------------|
| Pocomoke River..... | 1,000,000 |
| Manokin River..... | 500,000 |
| Wicomico River..... | 385,000 |
| | <hr/> 1,885,000 |

E. M. ELLIOTT,
Deputy.

Salisbury Hatching House, 1911.

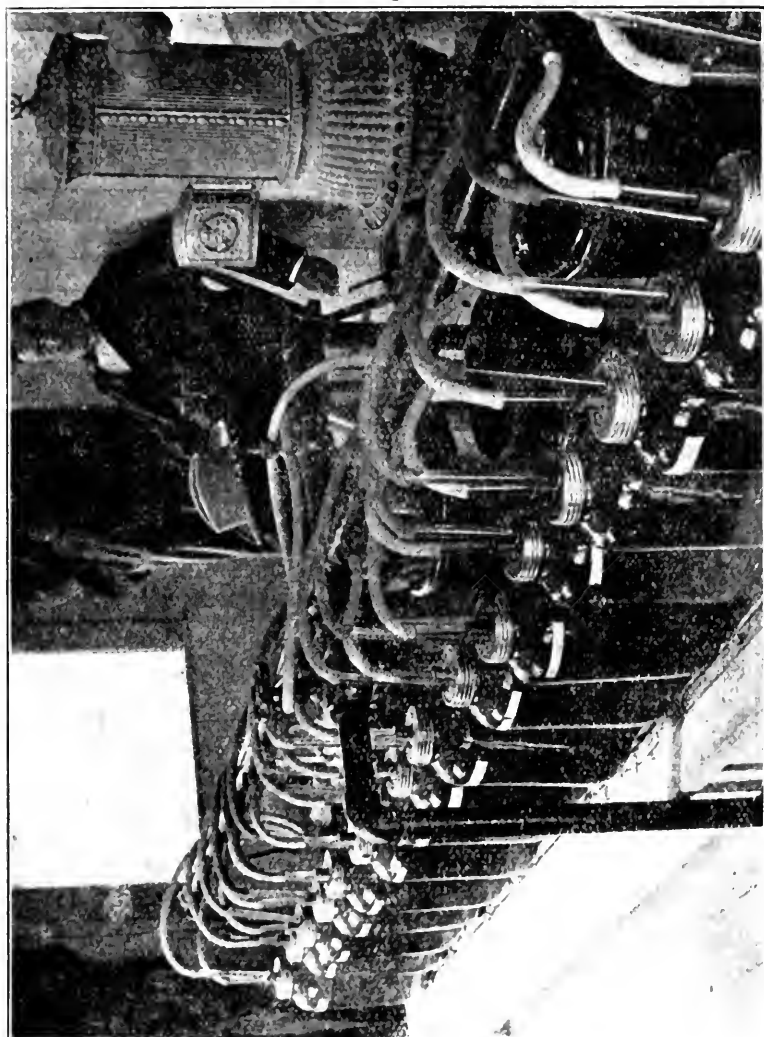
SHAD.

| <i>Date</i> | <i>Eggs Obtained.</i> | <i>Fish Hatched.</i> |
|-----------------|---------------------------|--------------------------|
| April 17th..... | 150,000 | 140,000 |
| " 18th..... | 100,000 | 80,000 |
| " 19th..... | 125,000 | 100,000 |
| " 20th..... | 125,000 | 100,000 |
| " 21st..... | 250,000 | 200,000 |
| " 22d..... | 250,000 | 200,000 |
| " 24th..... | 75,000 | 50,000 |
| " 25th..... | 250,000 | 200,000 |
| " 26th..... | 250,000 | 200,000 |
| " 27th..... | 200,000 | 150,000 |
| " 28th..... | 250,000 | 200,000 |
| " 29th..... | 250,000 | 200,000 |
| May 1st..... | 300,000 | 250,000 |
| " 2d..... | 175,000 | 160,000 |
| " 3d..... | 200,000 | 180,000 |
| " 4th..... | 240,000 | 200,000 |
| " 5th..... | 250,000 | 200,000 |
| " 6th..... | 200,000 | 180,000 |
| " 8th..... | 200,000 | 140,000 |
| " 9th..... | 240,000 | 200,000 |
| " 10th..... | 325,000 | 300,000 |
| " 11th..... | 280,000 | 260,000 |
| | <hr/> 4,785,000 | <hr/> 3,890,000 |

WHERE DEPOSITED.

| | |
|-------------------------------|-----------------|
| Pocomoke River..... | 1,000,000 |
| Manokin River..... | 1,000,000 |
| Wicomico River..... | 1,000,000 |
| Tulutanis Wicomico River..... | 890,000 |
| | <hr/> 3,890,000 |

E. M. ELLIOTT,
Deputy.



INTERIOR VIEW, HATCHING STATION.

Fish Commissioners of the States and Territories.

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Thos. Shannon, Jr., Morgan City.
N. H. Nunez, New Orleans.
Frank P. Para, Cut Off P. O.
Ben Michel, Pilot Town.

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A. R. Nickerson, Commissioner Sea and Shore Fisheries, Bootbay Harbor.

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Samuel J. Twilley, Pocomoke City, Worcester County.

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 Edward A. Brackett, Secretary, Winchester.
 J. W. Delano, Superintendent of Hatcheries, Marion.

MICHIGAN.

Freeman B. Dickerson, President, Detroit.
 George M. Brown, Vice-President, Saginaw.
 C. D. Joslyn, Detroit.
 George D. Mussey, Secretary, Detroit.
 Seymour Bower, Superintendent, Detroit.

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Uril Lamprey, President, St. Paul.
 W. P. Hill, Vice-President.
 D. W. Meeker, Secretary.
 H. G. Smith, Treasurer.
 S. F. Fullerton, Executive Agent.

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 Richard Porter, Paris.
 J. H. Zollinger, Boonville.
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William F. Scott, Helena, Warden.

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Hon. J. H. McKey, Lincoln.
 Geo. L. Carter, Chief Deputy, Lincoln.
 E. Hunger.
 H. L. McConnell.
 W. J. O'Brien, Superintendent Hatcheries.

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George T. Mills, Carson City.

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 Charles B. Clarke, Concord.
 Merrill Shurtleff, Lancaster.

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Benjamin P. Morris, President and Treasurer, Long Branch.
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 David P. McClellan, Morristown.
 Percy S. Johnson, Bloomfield.

NEW MEXICO.

Page Otero, Santa Fe, Warden.

NEW YORK.

DeWitt C. Middleton, Commissioner, Watertown.
 J. Duncan Lawrence, Deputy Commissioner, Bloomville.
 John D. Whish, Secretary, Albany.

NORTH DAKOTA.

W. W. Barrett, Church's Ferry.

OHIO.

J. L. Rogers, Columbus.
 Paul North, Cleveland.
 Duff W. Green, Dayton.
 Thomas B. Paxton, Cincinnati.

L. J. Webster, McConnelsville.
J. C. Porterfield, Chief Warden, Columbus.

OKLAHOMA.

J. A. Gould, El Reno, Warden.

OREGON.

Governor, Secretary of State, State Treasurer, Salem.
H. G. Van Dusen, Master Fish Warden, Astoria.

PENNSYLVANIA.

W. E. Meehan, Commissioner of Fisheries, Harrisburg.
John Hamberger, Erie.
Henry C. Cox, Wellsboro.
Andrew R. Whitaker, Phoenixville.
Charles L. Miller, Altoona.
Barton D. Evans, Chief Clerk, Harrisburg.

RHODE ISLAND.

(Commission Inland Fisheries, Office, State Capitol.)

Henry T. Root, President, Treasurer and Auditor, Providence.
J. M. K. Southwick, Vice-President, Newport.
William P. Morton, Secretary, Providence.
Charles W. Willard, Westerly.
Adelbert D. Roberts, Woonsocket.
A. D. Mead, Providence.
William H. Boardman, Central Falls.

TEXAS.

I. P. Kibbe, Port Lavaca.

UTAH.

John Sharp, State Fish and Game Commissioner, Salt Lake City.

VERMONT.

H. G. Thomas, Chairman, Stowe.
E. A. Davis, Bethel.

VIRGINIA.

Frank Fletcher, Chairman, Jenkins Bridge.
Seth F. Miller, Secretary, Foster.
John A. Curtis, Richmond.
George B. Keezwell, Keezelltown.
Pembroke Pettit, Palmyra.

WASHINGTON.

T. R. Kershaw, Whitcomb, Wash.

WEST VIRGINIA.

Frank Lively, Hinton, Warden.

WISCONSIN.

The Governor, Ex-officio.
Calvert Spensley, Treasurer, Mineral Point.
Prof. E. A. Birge, Secretary, Madison.
William J. Starr, Eau Clair.
Currie G. Bell, Bayfield.
J. J. Hogan, La Crosse.
Henry D. Smith, Appleton.
Jabe Alford, Madison.

WYOMING.

S. H. Campbell, District No. 1, Laramie City.
C. W. Morgaridge, District No. 2, Wolf.

